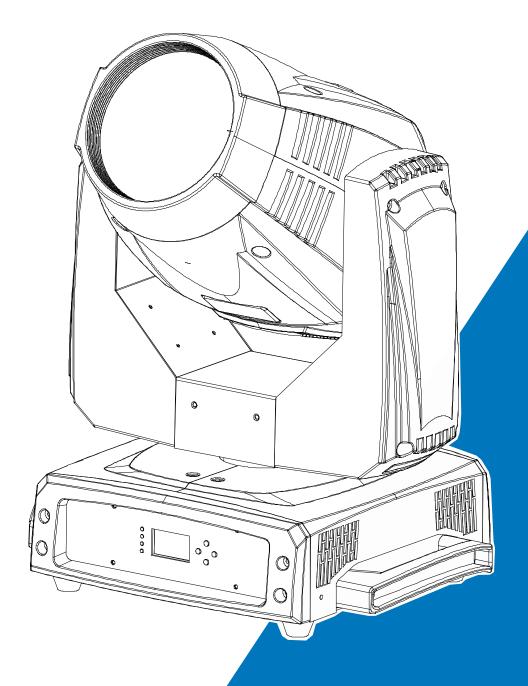


SABER BEAMFX



User Manual

Please read the instruction carefully before use

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1. Safety Instructions



Please read the instruction carefully which includes important information about the installation, usage and maintenance.

WARNING

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction manual.

Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

- Unpack and check carefully to ensure that there is no transportation damage before using the unit.
- This product is for indoor use only. Use only in a dry location.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Be sure that no ventilation slots is blocked, otherwise the unit will be overheated.
- Before operation, ensure that you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Minimum ambient temperature TA: 0° C. Maximum ambient temperature TA: 40° C. Do not operate this product at a lower or higher temperature.
- DO NOT connect the device to any dimmer pack.
- During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, and it will decrease gradually within 15 minutes.
- Keep flammable materials away from the fixture while operating to avoid fire hazard.
- Make sure the power cord is not crimped or damaged; replace it immediately if damaged.
- Unit's surface temperature may reach up to 90℃. DO NOT touch the housing bare-handed during its operation.

- Avoid any flammable liquids, water or metal from entering the unit. Once it happens, cut off the mains power immediately.
- DO NOT operate in a dirty or dusty environment. DO clean the fixture regularly.
- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid entanglement of the power cord with other wires.
- The minimum distance to objects/surface must be more than 12 meters.
- Disconnect mains power before fuse/lamp replacement or servicing.
- Replace fuse/lamp only with the same type.
- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- DO NOT open the housing as there are no user serviceable parts inside.
- DO NOT attempt to operate this unit if it becomes damaged. DO NOT attempt any repairs
 yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please
 contact the nearest authorized technical assistance center if needed.
- Disconnect this product from its power source before servicing.
- DO use the original packaging if the device is to be transported.
- Hot lamp explosion hazard. DO NOT open the unit within 15 minutes after switching off.
- DO replace the bulb once it is damaged, deformed or life-expired.
- Avoid direct eye exposure to the light source while the product is on.
- Never touch bulb with bare fingers, as it is very hot after using.
- DO NOT operate this product if you see damage on the housing, shields, or cables. Have the damaged parts replaced by an authorized technician at once.

Installation:

The fixture should be fixed on the clamp. Always ensure that the unit is firmly fixed to avoid vibration and slipping off during operation. Ensure that the trussing or area of installation must be able to hold 10 times the weight without any deformation. Always install a safety cable that can hold at least 12 times the weight of the fixture when installing.

DO install and operate by qualified operator. It must be installed in a place where there is out of the reach of people.

2. Technical Specifications

Power Voltage:
AC 100~240V, 50/60Hz
Power Consumption:
570W
Light Source:
OSRAM SIRIUS HRI 371W
Color Temperature:
7650K
Beam Angle:
2°
Movement:
Pan: 540°
Tilt: 270°
Pan/Tilt Resolution: 16 bit
Dimmer/Shutter:
0~100% smooth dimming, various strobe speeds
Color Wheel:
14 fixed colors plus open with rainbow effect
Gobo Wheel:
16 fixed gobos plus open
Control:
DMX Channel: 14/17 Channels
Control Mode: DMX512, RDM
Firmware Upgrade: Update via DMX link
Construction:
Display: LCD display
Data In/Out: 5-pin XLR
Power In/Out: Power Connector input/output
Protection Rating: IP20

Features:

Motorized focus

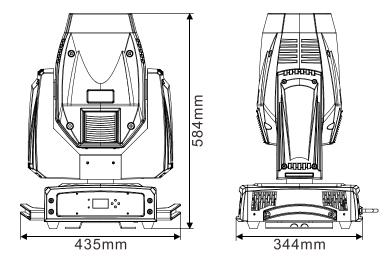
Outstanding color macro effect

8 facet prism+24 facet prism, both of them can rotate in both directions and overlay each other Independent frost effect

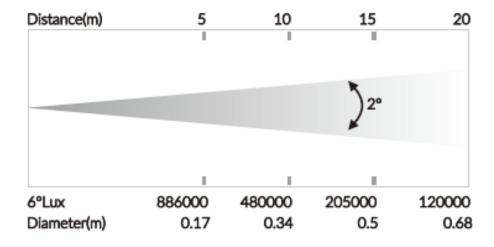
Dimension/Weight:

435x344x584mm, 20kgs

17.1"x13.5"x23"in, 44.1lbs

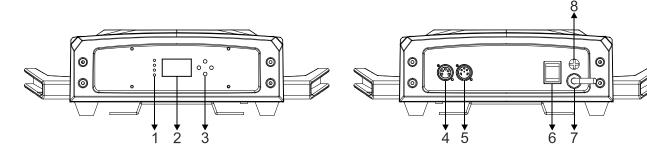


Photometric Diagram:

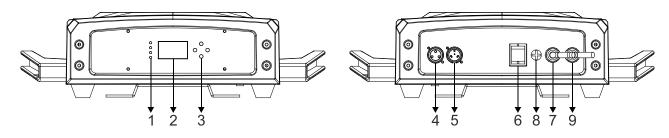


3 Control Panel

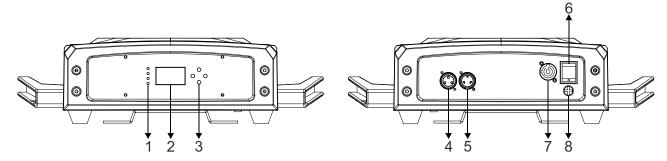
POWER CORD VERSION 1:



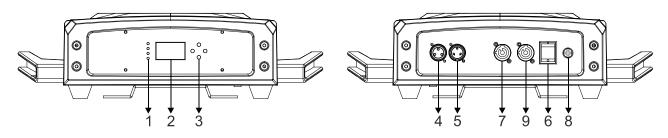
POWER CORD VERSION 2:



POWERCON VERSION 1:



POWERCON VERSION 2:



1. LED:

POWER	On	Power on
DMX	On	DMX input present

2. Display: To show the various menus and the selected function

3. Button:

MENU	To enter into move backward or leave the menu
▲ UP	To go backward to move up in the menu
▼ DOWN	To go forward to move down in the menu
ENTER	To perform the desired functions

4. DMX IN: For DMX512 link, use 3/5-pin XLR cable to link the unit and DMX controller

5. DMX OUT: For DMX512 link, use 3/5-pin XLR cable to link the next units

6. POWER SWITCH: Turns on/off the power

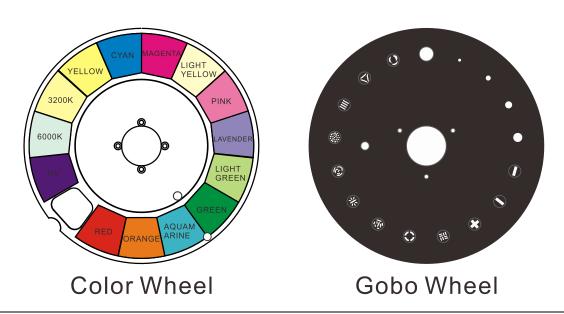
7. POWER/POWER IN: To connect to supply power

8. FUSE(T 10A): Protects the unit from over-voltage or short circuit

9. POWER OUT: To connect to the next fixture

4. Color/Gobo and Lamp

4.1 Color/Gobo



DANGER!

Install the color wheel/gobo wheels with the device switched off only.

Unplug from mains before changing the color wheel/gobo wheels!

4.2 Light Source

OSRAM SIRIUS HRI 371W

- Because of its high internal pressure, there might be a risk that the Discharge lamp would explode during operation. The lamp emits intense UV radiation which is harmful to the eyes and skin. The high luminance of the arc can cause severe damage to the retina if you take a close look at the lamp.
- To protect the lamp, always turn off the lamp first (via control panel or DMX controller) and let the unit run at least five minutes to cool down before switching off the mains supply. Never handle the lamp or luminary when it is hot.
- Do not touch the bulb with bare hands. If this happens, clean the lamp with denatured alcohol and wipe it with a lint free cloth before installation.
- The lamp generates UV radiation. Never operate the lamp without appropriate shielding.
- When lighting up, the lamp operates at high pressure and there is a slight risk of arc tube rupture. The risk increases with age, temperature and improper handling of the lamp. Do not use the lamp longer than its lifespan.
- Make sure the lamp is located in the center of the reflector for the best projection.

4.3 Change The Lamp

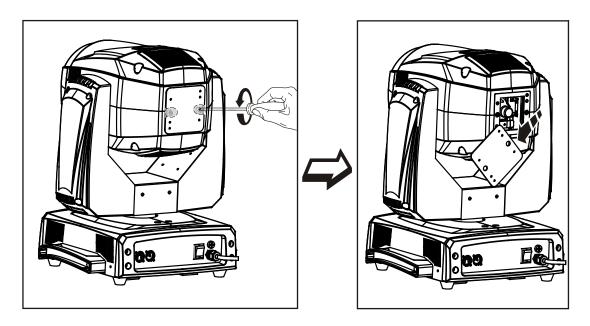
Attention: The entire light path and lens of the luminaire must be thoroughly cleaned before changing the bulb.

Do not use this lamp more than 1500 hours, using the lamp any longer than its set life could seriously damage your unit. Periodically checking the lamp running time, when the lamp reaches the 1500 hour mark, or close to it, we strongly suggest you switch the lamp out. Clear the RESET TIME after you have replaced the lamp.

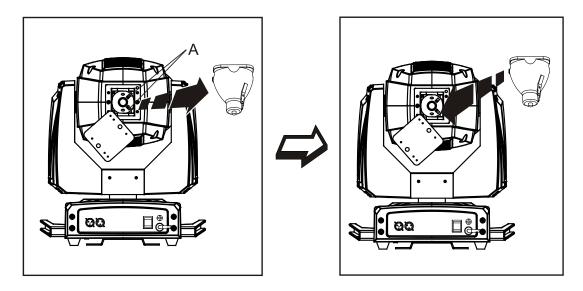
To replace the lamp:

Ensure that the fixture is detached from power and has cooled down completely. It is a good
idea to allow the fixture to run for 10 minutes after the lamp has been turned off, so that the
cooling fans have time to works.

2. Loosen the screws on the head of the fixture and open the fixture head covers.



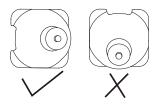
3. Loosen the screw that holds the lamp in place. Unplug the leads of the lamp and lift the lamp out of its recess, disconnect the lamp and connect a new lamp that must be the same type with the old one. And then place the new lamp into the lamp recess.



Finally reinstall the head cover, fastening it securely before reapplying power.

Warning:

The installing direction of lamp:



4.4 Lamp Replacement Warning

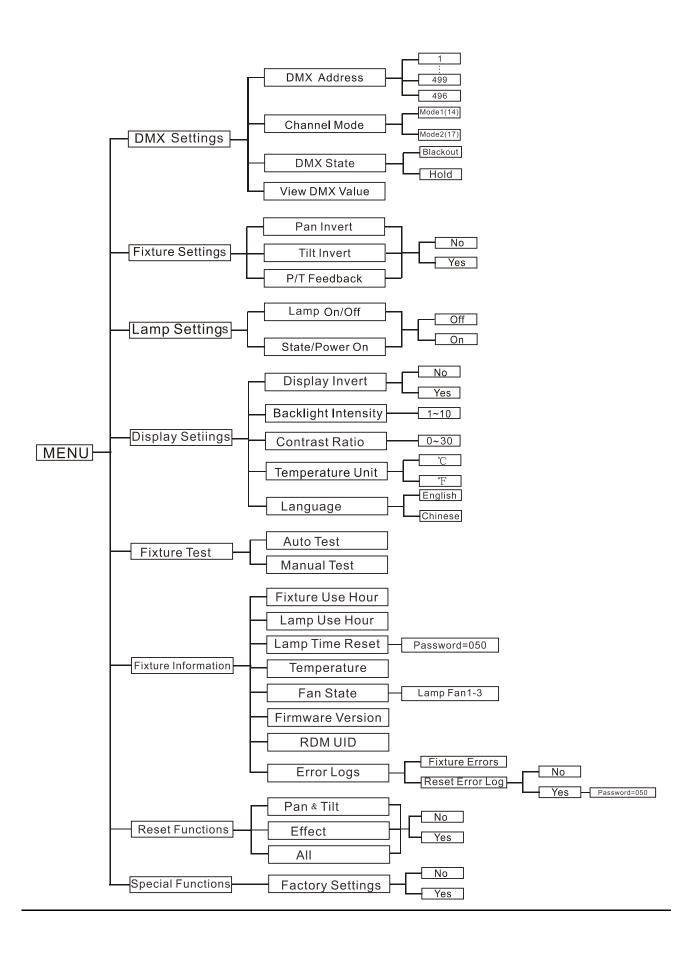
- When the lamp reaches 1200 hours of usage, the display will flash the message "Replace Lamp Soon" for up to 5 minutes. During this period, the fixture will still work normally.
- When the lamp reaches 1500 hours of usage, the display will flash the message "Replace Lamp Now" for up to 10 minutes. After 10 minutes, the fixture will return to normal operation.
- When the lamp is continuously used overtime, the display will flash the message "Lamp Timeout Use, Replace Lamp Now" for up to 10 minutes. After 10 minutes, the fixture will return to normal operation.

Attention: Damages caused by the failure to replace the bulb in time are not subject to warranty.

5. How To Set The Unit

5.1 Main Function

Turn on the unit, press the MENU button into menu mode, and press the UP/DOWN button until the required function is shown on the monitor. Select the function by the ENTER button. Use the UP/DOWN button to choose the submenu, press the ENTER button to store and automatically return to the last menu. Press the MENU button or let the unit idle 30 seconds to exit menu mode. The main functions are shown below:



DMX Settings

To select **DMX Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **DMX Address**, **Channel Mode**, **DMX State** or **View DMX Value**.

DMX Address

To select **DMX Address**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the address from **001** to **499/496**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Channel Mode

To select **Channel Mode**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Mode1(14)** or **Mode2(17)**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

DMX State

To select **DMX State**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Blackout**(fixture blacks out if DMX signal stops) or **Hold**(fixture continues to obey the last command it received Via DMX if DMX signal stops), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

View DMX Value

To select **View DMX Value**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to view the DMX channel value. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Fixture Settings

To select **Fixture Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Pan Invert**, **Tilt Invert** or **P/T Feedback**.

Pan Invert

To select **Pan Invert**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (pan invert), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Tilt Invert

To select **Tilt Invert**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (tilt invert), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

P/T Feedback

To select **P/T Feedback**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (Pan or tilt's position will not feedback while out of step) or **Yes** (Feedback while pan/tilt out of step), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Lamp Settings

To select **Fixture Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Lamp On/Off** or **State/Power on**.

Lamp On/Off

To select **Lamp On/Off**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **On** (lamp on) or **Off** (lamp off), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

State/Power On

To select **State/Power On**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **On** (Lamp on while power on) or **Off** (Lamp off while power on), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Display Settings

To select **Display Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Display Invert**, **Backlight Intensity**, **Contrast Ratio**, **Temperature Unit** or **Language**.

Display Invert

Select **Display Invert**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP/DOWN** button to select **No**(normal display) or **Yes**(invert display), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Backlight Intensity

Select **Backlight Intensity**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP/DOWN** button to adjust backlight intensity from **1** (dark) to **10** (bright), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Contrast Ratio

Select **Contrast Ratio**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP/DOWN** button to adjust value from **0** to **30**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Temperature Unit

Language

Select **Language**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP/DOWN** button to select **English** or **Chinese**. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Fixture Test

To select **Fixture Test**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Auto Test** or **Manual Test**

Auto Test

Select **Auto Test**, press the **ENTER** button to confirm, the unit will run built-in programs to automatically test pan, tilt, shutter, color, CMY, gobo, gobo rotation, prism, prism rotation, iris, frost, zoom, focus, dimmer and lamp on/off. Press the **MENU** button back to the last menu or exit menu mode after auto test.

Manual Test

Select **Manual Test**, press the **ENTER** button to confirm, the present channel will show on the display, use the **UP/DOWN** button to select channel, press the **ENTER** button to confirm, then use the **UP** and **DOWN** button to adjust the value, press the **ENTER** button to store, the fixture will run as the channel value indicates. Press the **MENU** button back to the last menu or exit menu mode

idling 30 seconds.

(All channels value will become 0 after exiting Manual Test menu)

Fixture Information

To select **Fixture Information**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Fixture Use Hour**, **Lamp Use Hour**, **Lamp Time Reset**, **Temperature**, **Fan State**, **Firmware Version**, **RDM UID** or **Error Logs**.

Fixture Use Hour

Select **Fixture Use Hour**, press the **ENTER** button to confirm, fixture use time will show on the display, press the **MENU** button to exit.

Lamp Use Hour

Select **Lamp Use Hour**, press the **ENTER** button to confirm, lamp use time will show on the display, press the **MENU** button to exit.

Lamp Time Reset

Select **Lamp Time Reset**, press the **ENTER** button to confirm, use the **UP/DOWN** button to set the password **050** to reset lamp time, press the **MENU** button to exit.

Temperature

Select **Temperature**, press the **ENTER** button to confirm, fixture temperature will show on the display, press the **MENU** button to exit.

Fan State

Select **Fan State**, press the **ENTER** button to confirm, fan state will show on the display, press the **MENU** button to exit.

Firmware Version

Select **Firmware Version**, press the **ENTER** button to confirm, firmware version will show on the display, press the **MENU** button to exit.

RDM UID

Select **RDM UID**, press the **ENTER** button to confirm, RDM UID will show on the display, press the **MENU** button to exit.

Error Logs

Select Error Logs, press the ENTER button to confirm, use the UP/DOWN button to select Fixture Errors or Reset Error Log, press the ENTER button to confirm. Select Reset Error Log, press the ENTER button to confirm, use the UP/DOWN button to select No or Yes, press the ENTER button to confirm. Select Yes, press the ENTER button to confirm, use the UP/DOWN button to set the password 050 to reset error log. Press the MENU button back to the last menu or exit menu mode idling 30 seconds.

Reset Functions

To select **Reset Functions**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Pan&Tilt**, **Effect** or **All**.

Pan&Tilt

Select **Pan&Tilt**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Yes** (the unit will run built-in program to reset pan and tilt to their home positions) or **No**(normal), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Effect

Select **Effect,** press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Yes** (the unit will run built-in program to reset effect to their home positions) or **No**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

ΑII

Select **All**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Yes** (the unit will run built-in program to reset all motors to their home positions) or **No**, press **ENTER** button to store. Press the **MENU** button to exit.

Special Functions

Factory Settings

Select Factory Settings, press the ENTER button to confirm, use the UP/DOWN button to select Yes(the fixture will reset to factory settings) or No(normal), press ENTER button to store. Press the MENU button to exit.

RDM FUNCTIONS

Select the MANUFACTURER menu to display the manufacturer of the fixture.

Select the SOFTWARE VERSION menu and the program version number of the fixture will be displayed.

Select the DMX START ADDRESS menu to change the DMX 512 address (001-512).

Select the DEVICE MODEL DESCRIPTION menu to display the model of the fixture.

Select the DEVICE LABEL menu to change the model of the fixture.

Select the DMX PERSONALITY menu to set the channel mode of the fixture (14/17 channel).

Select the DMX PERSONALITY DESCRIPTION menu to display the current channel mode of the fixture.

Select the DEVICE HOURS menu to display the running time of the fixture.

Select the LAMP HOURS menu to display the running time of the lamp.

Select the LAMP STATE menu to turn on/off the lamp.

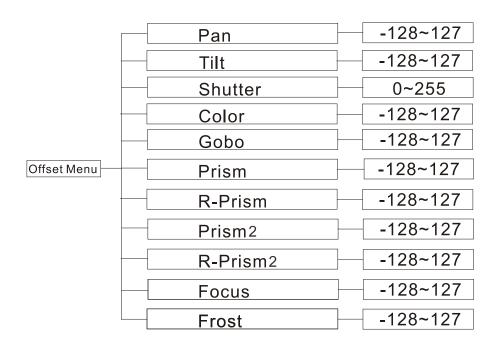
Select the PAN INVERT menu and the fixture will run the pan invert mode.

Select the TILT INVERT menu and the fixture will run the tilt invert mode.

Select the RESET DEVICE menu, the WARM RESET/COLD RESET option will be displayed. When WARM RESET is selected, the fixture will start a warm reset, and exit when COLD RESET is selected.

5.2 Home Position Adjustment

Press the MENU button into menu mode, then press the ENTER button for about 3 seconds into offset mode to adjust the home position. Select the function by the ENTER button. Use the UP/DOWN button to choose the submenu, press the ENTER button to store and automatically return to the last menu. Press MENU button to exit.



Pan

Enter offset mode, Select **Pan**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Tilt

Enter offset mode, Select **Tilt**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Shutter

Enter offset mode, Select **Shutter**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

Color

Enter offset mode, Select **Color**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Gobo

Enter offset mode, Select **Gobo**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Prism

Enter offset mode, Select **Prism**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

R-Prism

Enter offset mode, Select **R-Prism**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Prism 2

Enter offset mode, Select **Prism 2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

R-Prism 2

Enter offset mode, Select **R-Prism 2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Focus

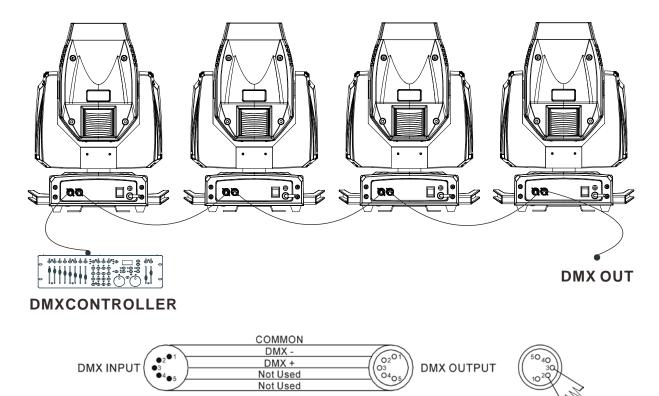
Enter offset mode, Select **Focus**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Frost

Enter offset mode, Select **Frost**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP/DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

6. Control By Universal DMX Controller

6.1 DMX512 Connection



- 1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
- 2. Connect the unit together in a "daisy chain" by XLR plug cable from the output of the unit to the input of the next unit. The cable cannot be branched or split to a "Y" cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
- 3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.
- 4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 1-512.
- 5. The end of the DMX 512 system should be terminated to reduce signal errors.
- 6. 3 pin XLR connectors are more popular than 5 pins XLR.
 - 3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
 - 5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

6.2 Address Setting

If you use a universal DMX controller to control the units, you have to set DMX address from 1 to 512 so that the units can receive DMX signal.

Press the MENU button to enter menu mode, select DMX Settings, press the ENTER button to confirm, use the UP/DOWN button to select DMX Address, press the ENTER button to confirm, the present address will blinking the display, use the UP/DOWN button to adjust the address from 001 to 512, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Please refer to the following diagram to address your DMX512 channel for the first 4 units.

Channel mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
14 channels	1	15	29	43
17 channels	1	18	35	52

6.3 DMX512 Configuration

Please refer to below configurations to control the fixtures

Attentions:

- 1. The unit will maintain the last condition until reset if you cut-off the DMX signal.
- 2. For the channel Function, keep the value for about 3 seconds, then the corresponding function will take into effect.

14 Channels (Mode 1):

CHANNEL	VALUE	FUNCTION
1	000-255	PAN 0°→540°
2	000-255	TILT 0°→270°
3	000-255	P/T SPEED Fast→Slow
4	000-003 004-007 008-011 012-015	COLOR White Color 1 Color 2 Color 3

	1		
	016-019	Color 4	
	020-023	Color 5	
	024-027	Color 6	
	028-031	Color 7	
	032-035	Color 8	
	036-039	Color 9	
	040-043	Color 10	
	044-047	Color 11	
	048-051	Color 12	
	052-055	Color 13	
	056-059	Color 14	
	060-127	White to Color14	
	128-189	Clockwise Rotation Fast to Slow	
	190-193	Stop	
	194-255	Counter-Clockwise Rotation Slow to Fast	
		Static GOBO	
	000-007	White	
	008-010	Gobo 1	
	011-013	Gobo 2	
	014-016		
	017-019	Gobo 3	
	020-022	Gobo 4 Gobo 5	
	020-022		
	025-025	Gobo 6	
		Gobo 7 Gobo 8	
	029-031		
5	032-034	Gobo 9	
	035-037	Gobo 10	
	038-040	Gobo 11	
	041-043	Gobo 12	
	044-046	Gobo 13	
	047-049	Gobo 14	
	050-052	Gobo 15	
	053-055	Gobo 16	
	056-127	Gobo Shaking Slow to Fast	
	128-189	Clockwise Rotation Fast to Slow	
	190-193	Stop	
	194-255	Counter-Clockwise Rotation Slow to Fast	
		PRISM 1	
6	000-007	Close	
	008-255	Open	
		R-PRISM 1	
	000-127	0%→100%	
7	128-189	Counter-Clockwise Rotation Fast to Slow	
-	190-193	Stop	
	194-255	Clockwise Rotation Slow to Fast	
	_355	PRISM 2	
8			

000-007	Close
	Open
R-P	
000-127	0%→100%
	Counter-Clockwise Rotation Fast to Slow
	Stop
	Clockwise Rotation Slow to Fast
20 : 200	Strobe
000-007	Close
	Open
	Strobe from slow to fast
	Fast close slow open
	Fast open slow close
	Pulsation from slow to fast
	Random Strobe
	Open
1.0 100	Dimmer
000-255	0%→100%
	FOCUS
000-255	0%→100%
	Frost
000-007	Close
008-255	Open
	SPECIAL FUNCTION
000-069	No Function
070-079	Blackout While Pan Tilt Move Enable
080-089	Blackout While Pan Tilt Move Disable
090-099	Blackout While Color Move Enable
100-109	Blackout While Color Move Disable
110-119	Blackout While Gobo Move Enable
120-129	Blackout While Gobo Move Disable
130-139	Lamp On
140-149	Reset XY
150-159	Reset Effect
160-199	No Function
200-209	Reset All
210-229	No Function
230-239	Lamp Off
240-255	No Function
	000-255 000-007 008-255 000-069 070-079 080-089 090-099 100-109 110-119 120-129 130-139 140-149 150-159 160-199 200-209 210-229 230-239

17 Channels (Mode 2):

CHANNEL	VALUE	FUNCTION	
1		PAN	
	000-255	0°→540°	
2	000-255	Pan Fine	
3		TILT	
_	000-255	0°→270°	
4	000-255	TILT Fine	
5		P/T SPEED	
	000-255	Fast→Slow	
		COLOR	
	000-003	White	
	004-007	Color 1	
	008-011	Color 2	
	012-015	Color 3	
	016-019	Color 4	
	020-023	Color 5	
	024-027	Color 6	
	028-031	Color 7	
	032-035	Color 8	
6	036-039	Color 9	
	040-043	Color 10	
	044-047	Color 11	
	048-051	Color 12	
	052-055	Color 13	
	056-059	Color 14	
	060-127	White to Color14	
	128-189	Clockwise Rotation Fast to Slow	
	190-193	Stop	
	194-255	Counter-Clockwise Rotation Slow to Fast	
		Static GOBO	
	000-007	White	
	008-010	Gobo 1	
	011-013	Gobo 2	
	014-016	Gobo 3	
	017-019	Gobo 4	
	020-022	Gobo 5	
7	023-025	Gobo 6	
	026-028	G000 0 G0b0 7	
	020-028	Gobo 8	
	032-031	Gobo 9	
	032-034	G0b0 9 Gobo 10	
	038-040	Gobo 11	
	041-043	Gobo 12	

	044-046	Gobo 13
	047-049	Gobo 14
	050-052	Gobo 15
	053-055	Gobo 16
	056-127	Gobo shaking slow to fast
	128-189	Clockwise Rotation Fast to Slow
	190-193	Stop
	194-255	Counter-Clockwise Rotation Slow to Fast
		PRISM 1
8	000-007	Close
Ĭ	008-255	Open
	000 233	R-PRISM 1
	000-127	N-PRISIVI 1 0%→100%
0		
9	128-189	Counter-Clockwise Rotation Fast to Slow
	190-193	Stop
	194-255	Clockwise Rotation Slow to Fast
		PRISM 2
10	000-007	Close
	008-255	Open
		R-PRISM 2
	000-127	0%→100%
11	128-189	Counter-Clockwise Rotation Fast to Slow
	190-193	Stop
	194-255	Clockwise Rotation Slow to Fast
		Strobe
	000-007	Close
	008-015	Open
	016-131	Strobe from slow to fast
12	132-167	Fast close slow open
	168-203	Fast open slow close
	204-239	Pulsation from slow to fast
	240-247	Random Strobe
	248-255	Open
	240-233	·
13	000 255	Dimmer
	000-255	0%→100%
14		FOCUS
- '	000-255	0%→100%
15	000-255	Focus Fine
15	000-255	Focus Fine Frost
15 16	000-255	
		Frost Close
	000-007	Frost Close Open
	000-007 008-255	Frost Close Open SPECIAL FUNCTION
	000-007 008-255 000-069	Frost Close Open SPECIAL FUNCTION No Function
16	000-007 008-255	Frost Close Open SPECIAL FUNCTION

090-099	Blackout While Color Move Enable
100-109	Blackout While Color Move Disable
110-119	Blackout While Gobo Move Enable
120-129	Blackout While Gobo Move Disable
130-139	Lamp On
140-149	Reset XY
150-159	Reset Effect
160-199	No Function
200-209	Reset All
210-229	No Function
230-239	Lamp Off
240-255	No Function

7. Error Information

1. CPU-B/C/D Error

Check whether the 485 (DATA) leads on the PCB board are installed in place or disconnected.

Check whether the 485 (DATA) lead is disconnected.

Check whether the relevant signal circuit 485 (DATA) on the PCB board is damaged.

2. Pan Reset Error

Check if the position of the pan mounting magnetic steel falls off or is damaged.

Check if there are other interference items in the pan operating range.

Check if the pan Hall elements is damaged.

Check if the pan Hall elements is in poor contact with the lead of the PCB board or disconnected.

Check if the pan motor is damaged.

Check if there is any damage to the circuit of the pan motor drive board.

3. Pan Encoder Error

Check if the pan encoder is damaged.

Check if the pan encoder is in poor contact with the lead of the PCB board or disconnected.

4. Tilt Reset Error

Check if the position of the tilt mounting magnetic steel falls off or is damaged.

Check if there are other interference items in the tilt operating range.

Check if the tilt Hall elements is damaged.

Check if the tilt Hall elements is in poor contact with the lead of the PCB board or disconnected.

Check if the tilt motor is damaged.

Check if there is any damage to the circuit of the tilt motor drive board.

5. Tilt Encoder Error

Check if the tilt encoder is damaged.

Check if the tilt encoder is in poor contact with the lead of the PCB board or disconnected.

6. Color Reset Error

Check if the position of the color wheel mounting magnetic steel falls off or is damaged.

Check if there are other interference items in the color wheel operating range.

Check if the color wheel Hall elements is damaged.

Check if the color wheel Hall elements is in poor contact with the lead of the PCB board or disconnected.

Check if the color wheel motor is damaged.

Check if there is any damage to the circuit of the color wheel motor drive board.

7. Gobo Reset Error

Check if the position of the gobo wheel mounting magnetic steel falls off or is damaged.

Check if there are other interference items in the gobo wheel operating range.

Check if the gobo wheel Hall elements is damaged.

Check if the gobo wheel Hall elements is in poor contact with the lead of the PCB board or disconnected.

Check if the gobo wheel motor is damaged.

Check if there is any damage to the circuit of the gobo wheel motor drive board.

8. Prism1/2 Reset Error

Check if the position of the prism1/2 mounting magnetic steel falls off or is damaged.

Check if there are other interference items in the prism1/2 operating range.

Check if the prism1/2 Hall elements is damaged.

Check if the prism1/2 Hall elements is in poor contact with the lead of the PCB board or disconnected.

Check if the prism1/2 motor is damaged.

Check if there is any damage to the circuit of the prism1/2 motor drive board.

9. Focus Reset Error

Check if the position of the focus mounting magnetic steel falls off or is damaged.

Check if there are other interference items in the focus operating range.

Check if the focus Hall elements is damaged.

Check if the focus Hall elements is in poor contact with the lead of the PCB board or disconnected.

Check if the focus motor is damaged.

Check if there is any damage to the circuit of the focus motor drive board.

10. Frost Reset Error

Check if the position of the frost mounting magnetic steel falls off or is damaged.

Check if there are other interference items in the frost operating range.

Check if the frost Hall elements is damaged.

Check if the frost Hall elements is in poor contact with the lead of the PCB board or disconnected.

Check if the frost motor is damaged.

Check if there is any damage to the circuit of the frost motor drive board.

11. Lamp Too Hot Off

Check if the temperature switch of the lamp is off.

Check if the fans are still running properly.

12. Lamp Fan1/2/3 Error

Check if the fan is not running.

Check if the fan leads are installed in place or disconnected.

Check if the fan is damaged.

Check if there are other interference items in the fan operating range.

Check if the fan circuit on the motherboard breaks down.

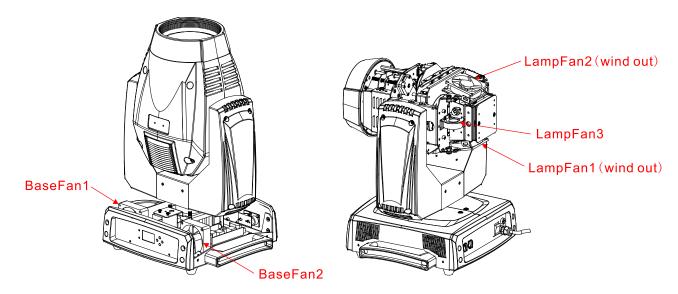
Check if the component is damaged.

Check if the fan is out of order.

13. Lamp Maintenance

Check lamp use time and replace the lamp in time.

The position of each fan of the fixture:



8. Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

- 1. Check the connect power and main fuse.
- 2. Measure the mains voltage on the main connector.
- 3. Check the power on LED to see if it can be light up or not.

B. Not responding to DMX controller

- 1. DMX LED should be on. If not, check DMX connectors, cables to see if they are linked properly.
- 2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
- 3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
- 4. Try to use another DMX controller.
- 5. Check to see if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

- 1. The stepper motor might be damaged or the cable connected to the PCB is broken.
- 2. The motor's drive IC on the PCB might be out of condition.

D. The lamp is cutting out intermittently

- 1. The lamp is not working well. Check the mains voltage either too high or too low.
- 2. Internal temperature may be too high. Check if replacement of fan is needed on the head.

9. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth and use normal glass to clean liquid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30 days.

Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 2014/30/EU.

EN 55032: 2015; EN61000-3-2: 2014; EN 61000-3-3: 2013; EN 55103-2: 2009.

& Harmonized Standard

EN 60598-1: 2015; EN 60598-2-17: 2018; EN 62493: 2015. Safety of household and similar electrical appliances Part 1: General requirements

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